

# HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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ATTORNEY'S DOCKET NUMBER

3402.1010-003

U.S. APPLICATION NO. (If known) 37 CFR 1.5)

**107534685**

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

INTERNATIONAL APPLICATION NO.  
PCT/US2003/036258

INTERNATIONAL FILING DATE  
13 November 2003  
(13.11.2003)

EARLIEST PRIORITY DATE CLAIMED  
13 November 2002  
(13.11.2002)

### TITLE OF INVENTION

Fast Startup in Autothermal Reformers

### APPLICANT(S) FOR DO/EO/US

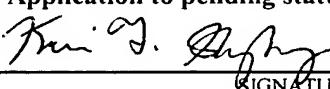
Yanlong Shi and Jian Lian Zhao

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.  An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

### Items 11 to 20 below concern document(s) or information included:

11.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98, with form PTO-1449(1 page) and International Search Report (5 pages).
12.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.  A preliminary amendment.
14.  An Application Data Sheet under 37 CFR 1.76.
15.  A substitute specification.
16.  A power of attorney and/or change of address letter.
17.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19.  A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20.  Other items or information: Copy of the published International Application; Copy of Facsimile to ISA/US requesting correction in the spelling of Applicant name in the International Search Report and Auto-Reply facsimile confirming receipt; Formal Figures (4 sheets; Figs. 1-3, 4A-4B) with copy of transmittal letter to RO/US and accompanying Powers of Attorney; Notification of Receipt of Demand for IPE (PCT/IPEA/402); Information Concerning Elected Offices Notified of their Election (PCT/IB/332); Written Opinion (PCT/IPEA/408); and Notification of Transmittal of International Preliminary Examination Report (IPER) (PCT/IPEA/416) and IPER (PCT/IPEA/409).

U.S. APPLICATION NO. (if known, see 37 CFR 1.77) <b>10/534685</b>		INTERNATIONAL APPLICATION NO. PCT/US2003/036258	ATTORNEY'S DOCKET NUMBER 3402.1010-003	
The following fees have been submitted			CALCULATIONS	PTO USE ONLY
21. [ X ] Basic national fee .....			\$300.00	\$300
22. [ X ] Examination fee If International preliminary examination report prepared by USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....			\$100.00	
All other situations .....			\$200.00	\$200
23. [ X ] Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....			\$100.00	
International Search Report prepared and provided to the Office .....			\$400.00	
All other situations .....			\$500.00	\$100
<b>TOTAL OF 21, 22 and 23 =</b>			\$600.00	
[ ] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	
- 100 =	/50 =		x \$250.00	\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).			\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	12 - 20 =	0	x \$50.00	\$0.00
Independent claims	2 - 3 =	0	x \$200.00	\$0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$
<b>TOTAL OF ABOVE CALCULATIONS =</b>			\$600.00	
[ ] Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.			\$	
			<b>SUBTOTAL =</b>	\$600
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			+ \$	
			<b>TOTAL NATIONAL FEE =</b>	\$600.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			+ \$	
			<b>TOTAL FEES ENCLOSED =</b>	\$600.00
			Amount to be refunded:	\$
			Amount to be charged:	\$
a. [ X ] A check in the amount of \$600 to cover the above fees is enclosed.				
b. [ ] Please charge my Deposit Account No. 08-0380 in the amount of \$[ ] to cover the above fees. A duplicate copy of this sheet is enclosed.				
c. [ X ] The Commissioner is hereby authorized to charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A duplicate copy of this sheet is enclosed.				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				
SEND ALL CORRESPONDENCE TO:				
Customer No. 021005 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 Virginia Road P.O. Box 9133 Concord, MA 01742-9133		SIGNATURE Kevin T. Shaughnessy NAME		
		51,014 REGISTRATION NUMBER		